

FOR TRIANGLE, ELECTRIC CURRENTS ARE CALCULATED FROM VERTEXES TO OPPOSITE SIDE DIRECTIONS



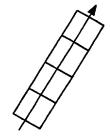
FOR QUADRILATERAL, ELECTRIC CURRENTS IN OPPOSITE SIDE DIRECTIONS ARE CALCULATED

FIG. 1 PRIOR ART



FOR TRIANGLE, ELECTRIC CURRENT FLOWS UNEVENLY, AND PROPAGATION DELAY **OCCURS** (ANALYSIS ACCURACY: LOW)

FIG. 2A PRIOR ART FIG. 2B PRIOR ART



FOR QUADRILATERAL, ELECTRIC CURRENT SMOOTHLY FLOWS (ANALYSIS ACCURACY : HIGH)

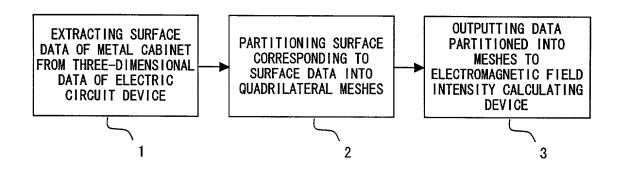


FIG. 3

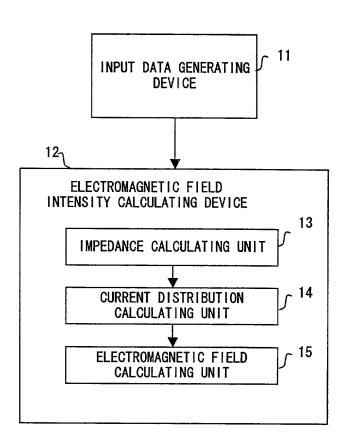


FIG. 4

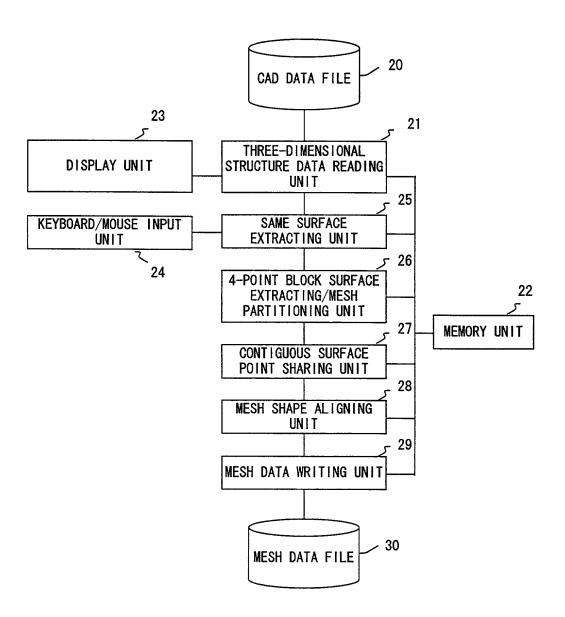


FIG. 5

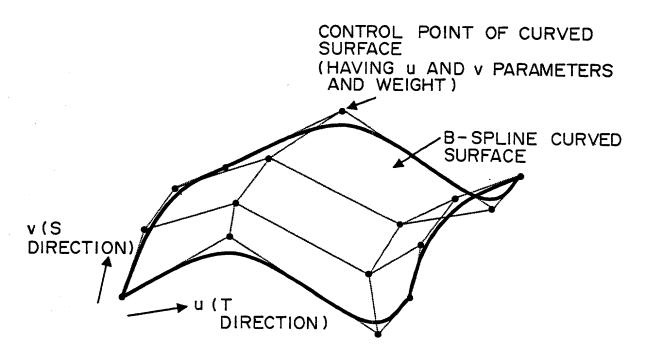


FIG. 6

| NAME<br>ENTITY ID<br>K1<br>K2<br>M1<br>M2<br>PROP1<br>PROP2<br>PROP3<br>PROP4<br>PROP5 | SUMMARY SURFACE NUMBER OF B-SPLINE CURVED SURFACE SUPERSCRIPT OF TOTAL SUM SYMBOL IN S DIRECTION SUPERSCRIPT OF TOTAL SUM SYMBOL IN T DIRECTION ORDER OF BASE FUNCTION ORDER OF BASE FUNCTION PARAMETER 1 INDICATING STATE OF CURVED SURFACE PARAMETER 2 INDICATING STATE OF CURVED SURFACE PARAMETER 3 INDICATING STATE OF CURVED SURFACE PARAMETER 4 INDICATING STATE OF CURVED SURFACE PARAMETER 5 INDICATING STATE OF CURVED SURFACE |
|--|--|
| S (−M1)<br>~   | NOT SEQUENCE VALUE IN S DIRECTION  |
| T (-M2)<br>~   | NOT SEQUENCE VALUE IN T DIRECTION  |
| ₩(0,0)<br>~  | WEIGHT   |
| X (0, 0)<br>Y (0, 0)<br>Z (0, 0)   | SPATIAL COORDINATE VALUE OF EACH CONTROL POINT(X) SPATIAL COORDINATE VALUE OF EACH CONTROL POINT(Y) SPATIAL COORDINATE VALUE OF EACH CONTROL POINT(Z)  |
| U(0)<br>U(1)<br>V(0)<br>V(1)   | START VALUE IN S DIRECTION END VALUE IN S DIRECTION START VALUE IN T DIRECTION END VALUE IN T DIRECTION  |

F I G. 7

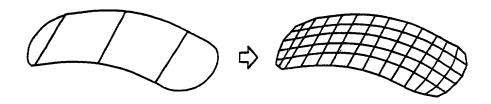


FIG. 8



SELECTING ONE SURFACE ON FRONT OR BACK



SAMÉ SURFACE AS SELECTED SURFACE

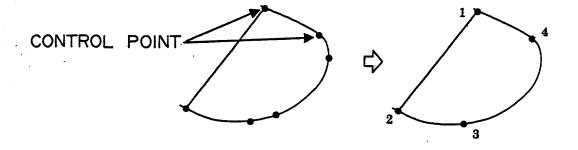


FIG. 10

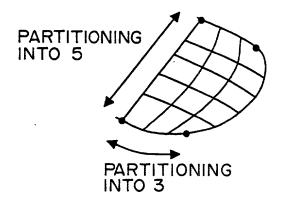


FIG. 11

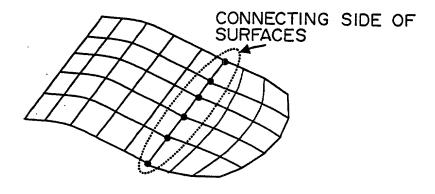
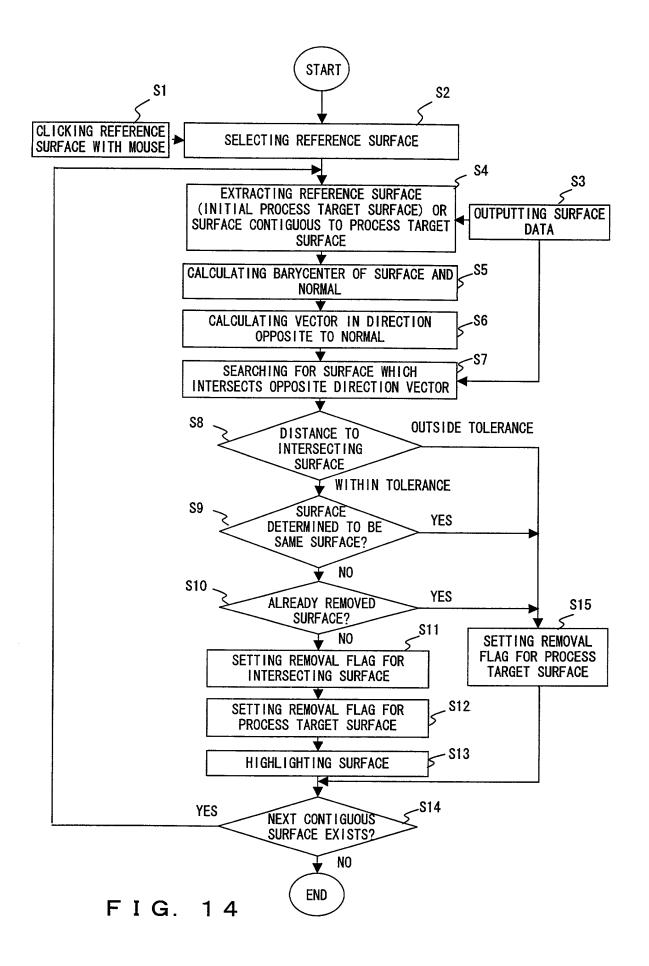


FIG. 12

SURFACES OF DIFFERENT MATERIALS

REPARTITIONING MESHES IN DOTTED LINE PORTIONS

FIG. 13





SURFACE DETER

SELECTING REFERENCE SURFACE

SURFACE DETERMINED TO BE SAME SURFACE AS REFERENCE SURFACE

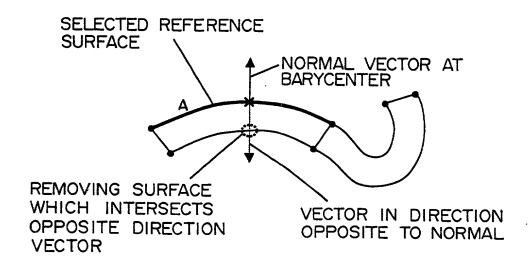


FIG. 16

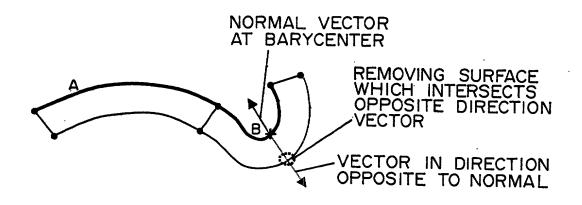
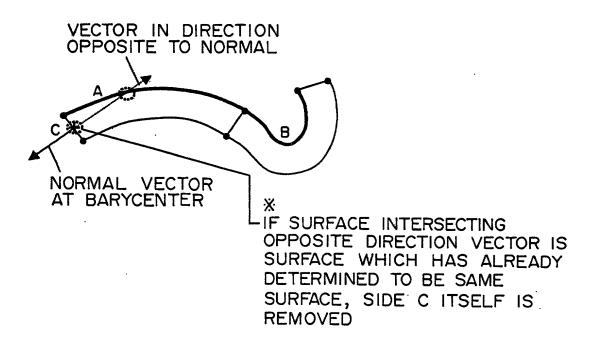


FIG. 17



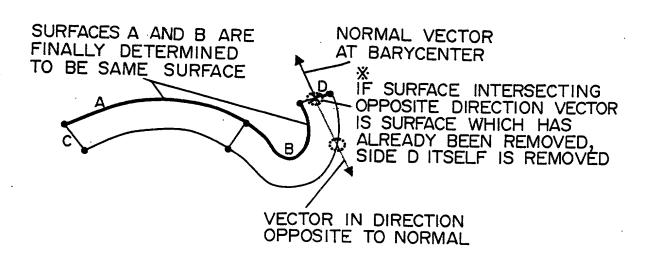
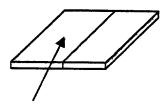
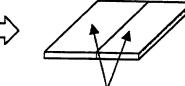


FIG. 19



SELECTING REFERENCE SERFACE





SURFACE DETERMINED TO BE SAME SURFACE AS REFERENCE SURFACE

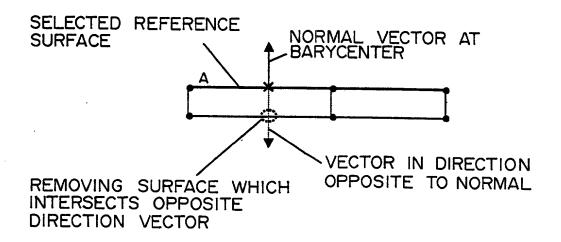


FIG. 21

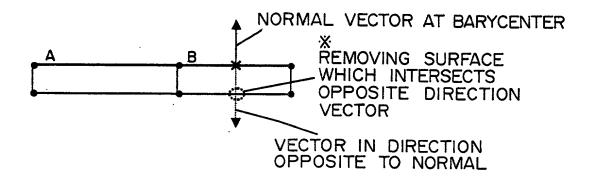


FIG. 22

## VECTOR IN DIRECTION OPPOSITE TO NORMAL

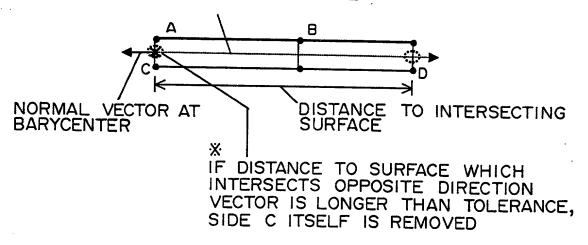


FIG. 23

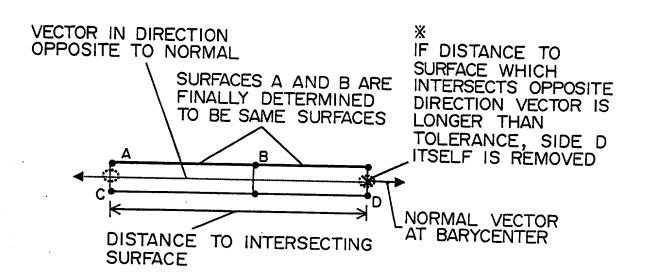


FIG. 24

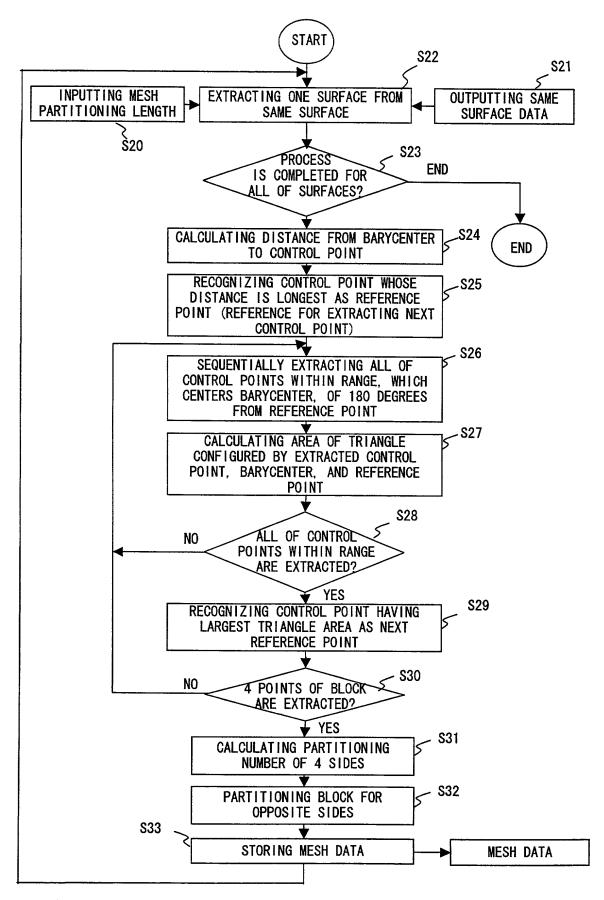


FIG. 25

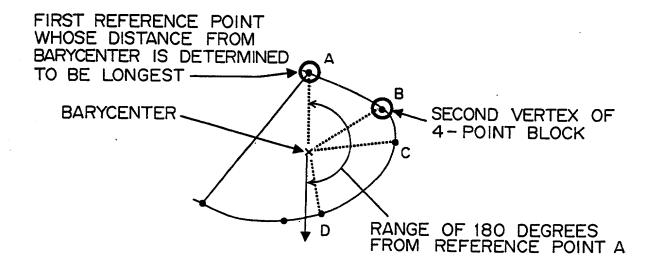


FIG. 26

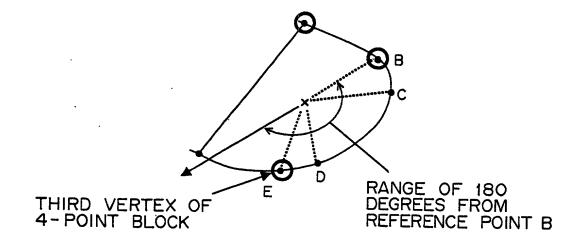


FIG. 27

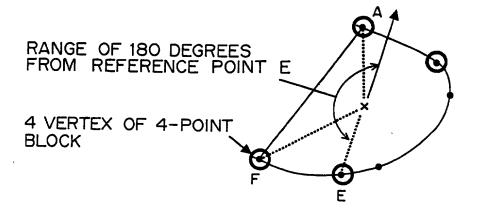
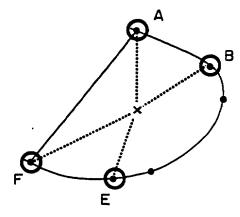


FIG. 28



O 4 CIRCLED POINTS FINALLY REMAIN

FIG. 29

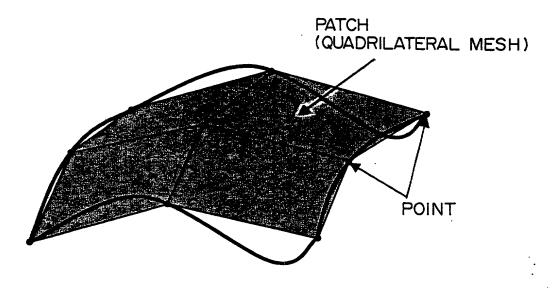


FIG. 30

## COORDINATE SPECIFICATION DATA OF POLYGON VERTEX: \$point

## SPECIFICATION DATA OF POLYGON CONFIGURING POINT: \$patch

```
<KEYWORD - STATEMENT>
      $patch
<DATA - STATEMENT>
    Patch no. PATCH NUMBER
    Point 1
               POINT NUMBER WHICH BECOMES FIRST CONFIGURING POINT OF PATCH
    Point 2
               POINT NUMBER WHICH BECOMES SECOND CONFIGURING POINT OF PATCH
    Point 3
               POINT NUMBER WHICH BECOMES THIRD CONFIGURING POINT OF PATCH
    Point 4
               POINT NUMBER WHICH BECOMES FOURTH CONFIGURING POINT OF PATCH
<DESCRIPTION EXAMPLE>
     $patch
     1
        10
               11
                      12
                            13
```

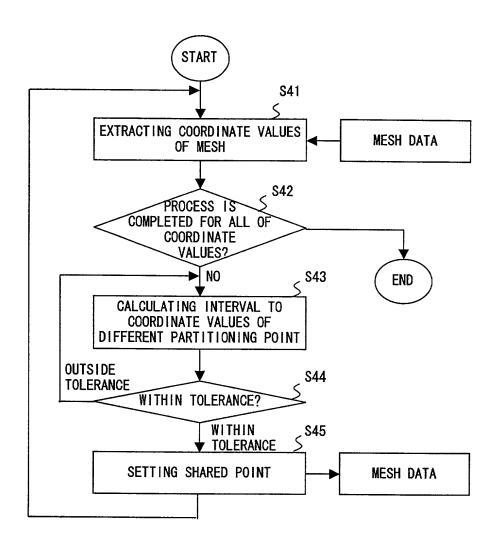


FIG. 32

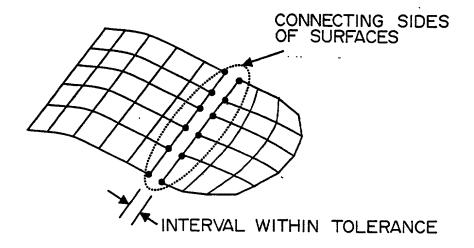


FIG. 33

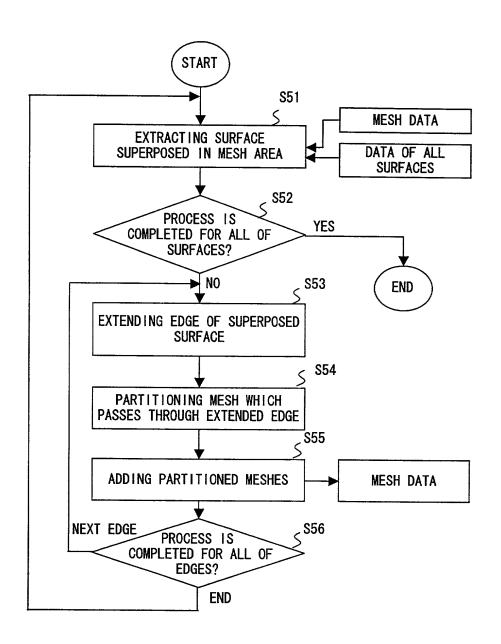


FIG. 34

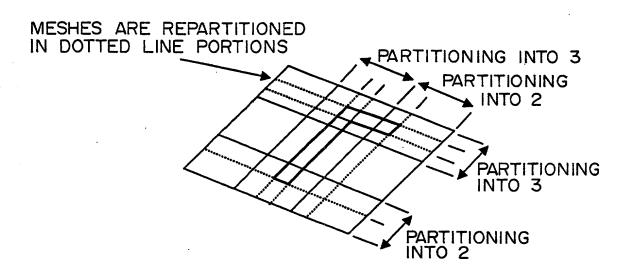
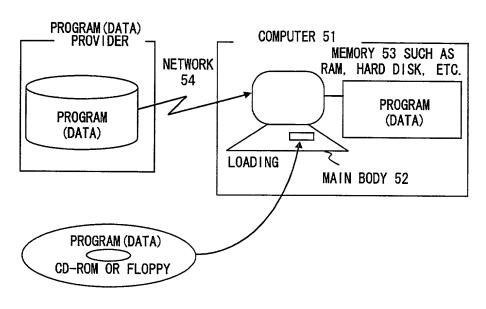


FIG. 35



DISTRIBUTED AS PORTABLE STORAGE MEDIUM 55

FIG. 36